## CLAIMS

1. A system for embedding additional information in video data comprising:

(1) means for detecting a video frame in video data;

(2) means for extracting data for a small domain from said detected video frame and for buffering said data;

(3) means for embedding additional information in said buffered small domain without changing the length of the video data stream; and

(4) means for returning said small domain, in which said additional information has been embedded, to said video data.

- 2. The system according to claim 1, wherein said video data is MPEG video data.
- 3. The system according to claim 2, wherein said video frame is an intra-macroblock of an I-frame or of a P of B-frame.
- 4. The system according to claim 3, wherein said means (3) for embedding said additional information includes:

(3a) means for detecting a DC factor in said buffered small domain;

- (3b) means for determining whether the bit length of said DC factor will be unchanged even when said additional information has been embedded; and
- (3c) means for, when said bit length will be unchanged, embedding said additional information in said buffered small domain.
- 5. The system according to claim 4, wherein said means (3) for embedding said additional information further includes:
- (3d) means for, when said bit length will be changed, determining whether 1/2 of said additional information can be embedded, and for, when embedding is feasible, embedding said 1/2 of said additional information in said small domain.
- 6. The system according to claim 5, wherein said additional information is an embedding pattern obtained using a pseudorandom number.
- 7. The system according to claim 6, wherein said small domain is one macroblock domain (16? 16 pixels).
- 8. A system for detecting additional information in video data, comprising:

(1) means for detecting a video frame in video data;

- (2) means for extracting data for a small domain from said video frame that is detected, and for buffering said data; and
- (3) means for detecting additional information in said small domain that is buffered.
- 9. A method for embedding additional information in video data comprising the steps of:

(1) detecting a video frame in video data;

- (2) extracting data for a small domain from said detected video frame and buffering said data;
- (3) embedding additional information in said buffered small domain without changing the length of the video data stream; and

- (4) returning said small domain, in which said additional information has been embedded, to said video data.
- 9. A method for embedding an electronic watermark in an MPEG stream comprising the steps of:
- (1) detecting an intra-macroblock of an I-frame or a P or B-frame in an MPEG stream;
- (2) extracting data for one macroblock from said MPEG stream and buffering said data when said intra-macroblock of said I-frame or said P or B-frame is detected;
- (3) embedding an embedding pattern in said buffered macroblock without changing the length of VLC; and
- (4) returning said macroblock, in which said embedding pattern has been embedded, to said MPEG stream.
- 10. A method for detecting additional information in video data, comprising the steps of:
- (1) detecting a video frame in video data;
- (2) extracting data for a small domain from said video frame that is detected, and buffering said data; and
- (3) detecting additional information in said small domain that is buffered.
- 11. A method for detecting an electronic watermark in an MPEG stream, comprising the steps of:
- (1) detecting an intra-macroplock of an I-frame or a P or B-frame in an MPEG steam;
- (2) extracting data for one macroblock from said MPEG stream and buffering said data when said intra-macroblock of said I-frame or said P or B-frame is detected; and
- (3) detecting a pattern that is embedded in a DC factor in said macroblock that is buffered.
- 12. A system for controlling the copying of digital data, comprising:
- (1) means for detecting CCI in input data;
- (2) means for, when said OCI is detected, detecting ECCI in said input data;
- (3) means for, when said HCCI is detected, inhibiting the copying of the digital data; and
- (4) means for, when said ECCI is not detected, permitting the embedding of said ECCI in said digital data and the copying of the resultant digital data.
- 13. A storage medium on which a program for embedding additional information in video data, said program comprising:
- (1) a function for detecting a video frame in video data;
- (2) a function for extracting data for a small domain from said detected video frame and for buffering said data;
- (3) a function for embedding additional information in said buffered small domain without changing the length/of the video data stream; and
- (4) a function for returning said small domain, in which said additional information has been embedded, to said video data.
- 14. A storage medium for storing a program for detecting additional information in video data, said program comprising:
- (1) a function for detecting a video frame in video data;
- (2) a function for extracting data for a small domain from said video frame that is detected, and for buffering said data; and

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